

# Roll of Evaluation In Writing and Implementing Energy Codes

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# Past Studies

- Baseline Characteristics of Commercial Construction in Washington and Oregon
- Implementation of Commercial Energy Codes through the use of Special Plans Examiners and Inspectors

*Baseline Characteristics of the Residential  
Sector in Idaho, Montana, Oregon and  
Washington*

For the N.W. Energy Efficiency Alliance

By Ecotope

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# Includes

- Field Inspection
- Plans examination at the building department
- Survey of Builders, Architects, Developer attitudes

# Building Examination Includes

- Details of each component
  - Window U-factor, Insulation Level
  - Fuel Choice, Heating Systems choice
- By State
- Compared to State Standards

# Primary Compliance Method

- Idaho- Component Trade Off
- Montana- Prescriptive
- Oregon- Prescriptive
- Washington- Component Trade Off

# Glazing

	U-factor	% of Floor Area	Code U-Factor	Code Glazing Limit
Idaho	0.47	12.7%	0.50	17%
Montana	0.047	13.1%	0.50	NA
Oregon	0.37	15.2%	0.40	NA
Washington	0.46	14.8%	0.65	15%

# Overall Uo by State

	Buildings UA/FT2	Code Minimum UA/FT2	% Complinace
Idaho	0.267	0.261	51%
Montana	.247	0.251	86%
Oregon	0.220	0.23	100%
Washington	0.242	0.264	93.6%



# Builder Interviews

## Negative Elements of the Energy Code?

Ventilation & Moisture	47%
Insulation Level	29%
Glazing	5%
Code should be more flexible	2.3%